

Abstract: Coupled, vertical-axis flux rotator.

By Daniel Collins, B.Sc. (U.Syd).

Presented is a design for a High- Torque, Low Speed, Vertical_Axis, Flux Rotator, designed primarily to function in a low velocity, uniform, homotropic flow with the axis of rotation vertical to the flow and co-incident to the gradient of the gravitational field.

It follows from Australian Commonwealth Government Patent 2112100575, The Flux Rotator.

The design modifications are intended to help the stationary turbine start in a very slow velocity fluid without a 'kick –start' and improve performances at those lower speeds.

For measurement and energy transfer applications the new design will work in a wide variety of liquids and gasses, in a wide range of fluid viscosity's and temperatures.